

# Philippe Poullain

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

620  
citations

933447

10  
h-index

794594

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Characterization of Raw Earth Properties for Modeling Their Hygrothermal Behavior. <i>Buildings</i> , 2022, 12, 648.	3.1	7
2	Assessment of the natural variability of cob buildings hygric and thermal properties at material scale: Influence of plants add-ons. <i>Construction and Building Materials</i> , 2022, 342, 127922.	7.2	4
3	Parametric PGD model used with orthogonal polynomials to assess efficiently the building's envelope thermal performance. <i>Journal of Building Performance Simulation</i> , 2021, 14, 132-154.	2.0	2
4	Earth buildings with local materials: Assessing the variability of properties measured using non-destructive methods. <i>Construction and Building Materials</i> , 2021, 281, 122613.	7.2	21
5	Sensitivity analysis of the transient heat and moisture transfer in a single layer wall. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 2211-2229.	2.1	7
6	Fabrication, microstructure, and properties of fired clay bricks using construction and demolition waste sludge as the main additive. <i>Journal of Cleaner Production</i> , 2020, 258, 120733.	9.3	64
7	3D printing for construction based on a complex wall of polymer-foam and concrete. <i>Additive Manufacturing</i> , 2019, 28, 58-64.	3.0	70
8	Properties of Compressed Earth Blocks Made of Traditional Materials from Benin. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2019, 29, 233-241.	0.6	1
9	Influence of the kenaf fiber length on the mechanical and thermal properties of Compressed Earth Blocks (CEB). <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 785-793.	1.9	32
10	3D mesoscale simulation of crack-permeability coupling in the Brazilian splitting test. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 449-468.	3.3	10
11	On site deployment of 3D printing for the building construction – The case of Yhnova <sup>TM</sup> . <i>MATEC Web of Conferences</i> , 2018, 163, 01001.	0.2	10
12	A mixed POD-PGD approach to parametric thermal impervious soil modeling: Application to canyon streets. <i>Sustainable Cities and Society</i> , 2018, 42, 444-461.	10.4	6
13	Meso-scale investigation of failure in the tensile splitting test: Size effect and fracture energy analysis. <i>Engineering Fracture Mechanics</i> , 2016, 168, 242-259.	4.3	26
14	Internal erosion in granular media: direct numerical simulations and energy interpretation. <i>Hydrological Processes</i> , 2015, 29, 2149-2163.	2.6	57
15	Modeling of fluid-solid interaction in granular media with coupled lattice Boltzmann/discrete element methods: application to piping erosion. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 577-596.	3.3	98
16	Transient Thermal Response of Lightweight Cementitious Composites Made with Polyurethane Foam Waste. <i>International Journal of Thermophysics</i> , 2012, 33, 1239-1258.	2.1	10
17	The effect of particle shape on the marginal rigidity state in 2D granular media. <i>Europhysics Letters</i> , 2009, 86, 44003.	2.0	5
18	Proportioning and characterization of lightweight concrete mixtures made with rigid polyurethane foam wastes. <i>Cement and Concrete Composites</i> , 2008, 30, 806-814.	10.7	157

#	ARTICLE	IF	CITATIONS
19	Etude du couplage thermo-chimique au sein de matrices cimentaires en cours d'hydratation. Revue Européenne De Génie Civil, 2007, 11, 725-737.	0.0	0
20	Développements récents dans l'application de l'IRM à la rhéologie et à la mécanique des fluides. Comptes Rendus Chimie, 2004, 7, 275-282.	0.5	33
21	Effect of Plant Fibres on the Variability of Cob Materials. , 0, , .		0
22	Synthesis of the Current Knowledge Concerning the Construction of French Traditional Cob Building for Giving Recommendations. , 0, , .		0